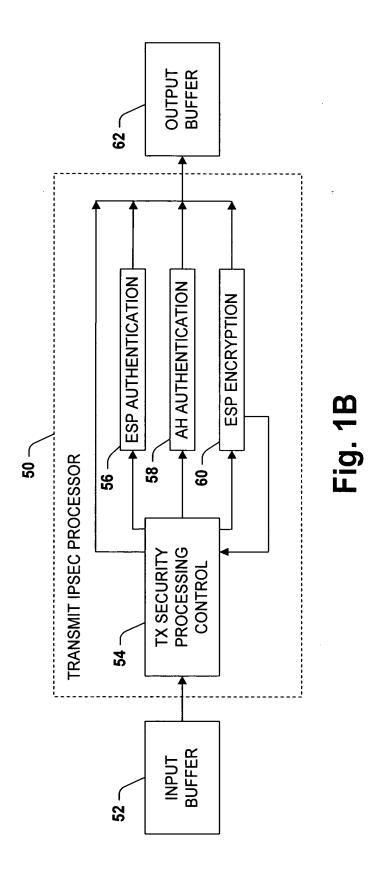
Fig. 1A

**HOST SYSTEM** 



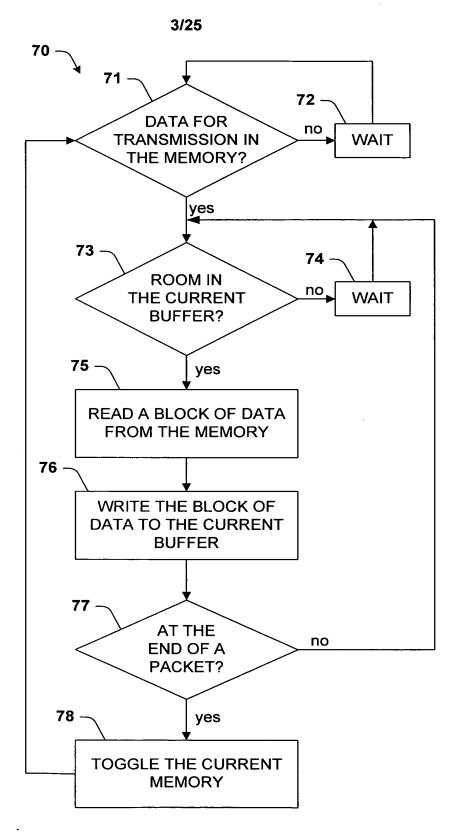


Fig. 1C

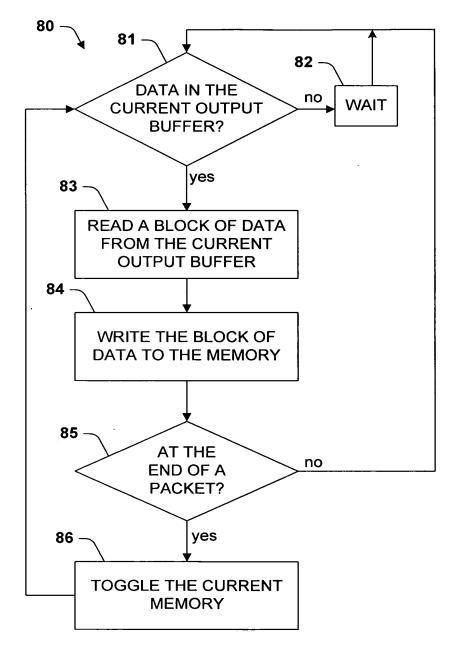
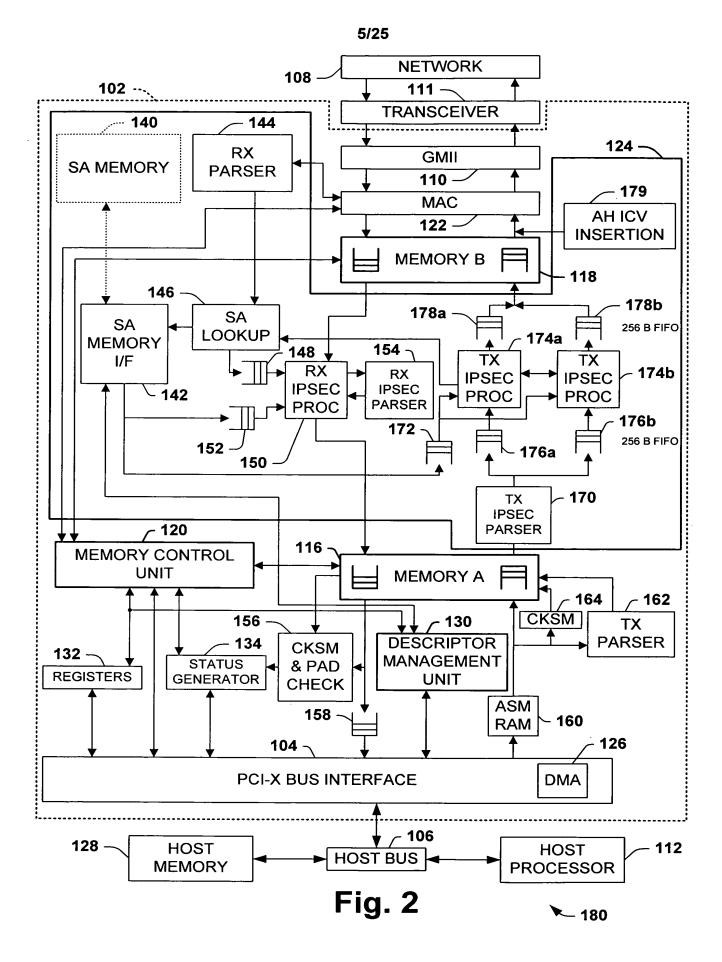


Fig. 1D



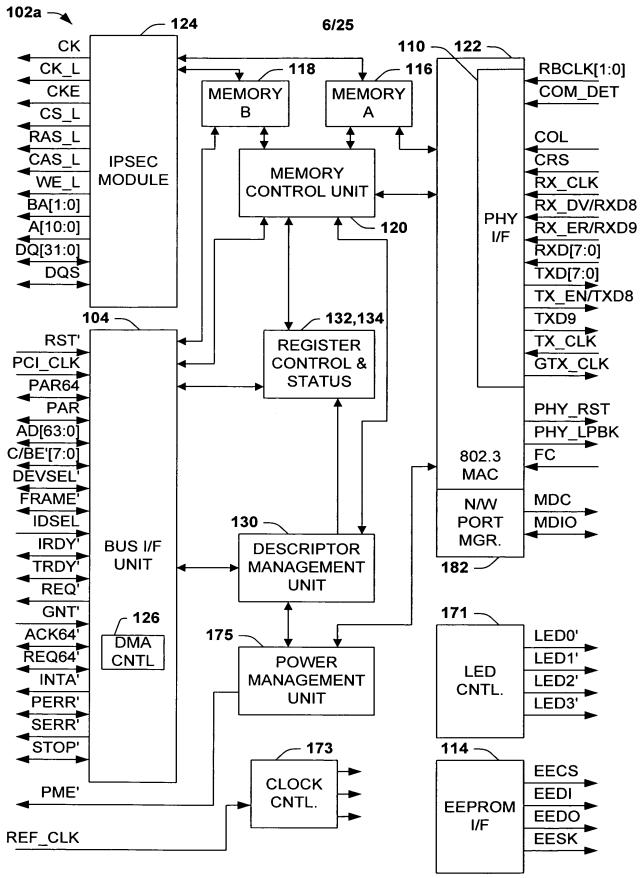


Fig. 3

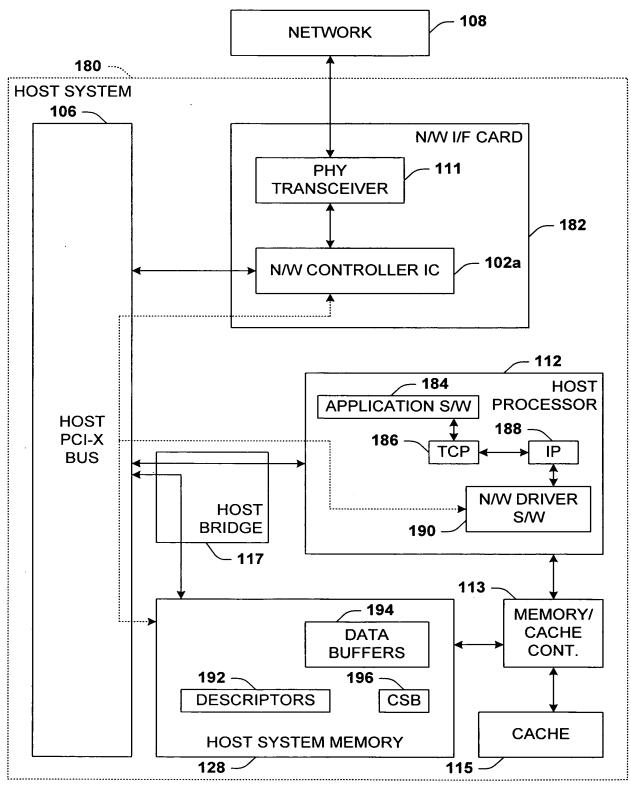


Fig. 4

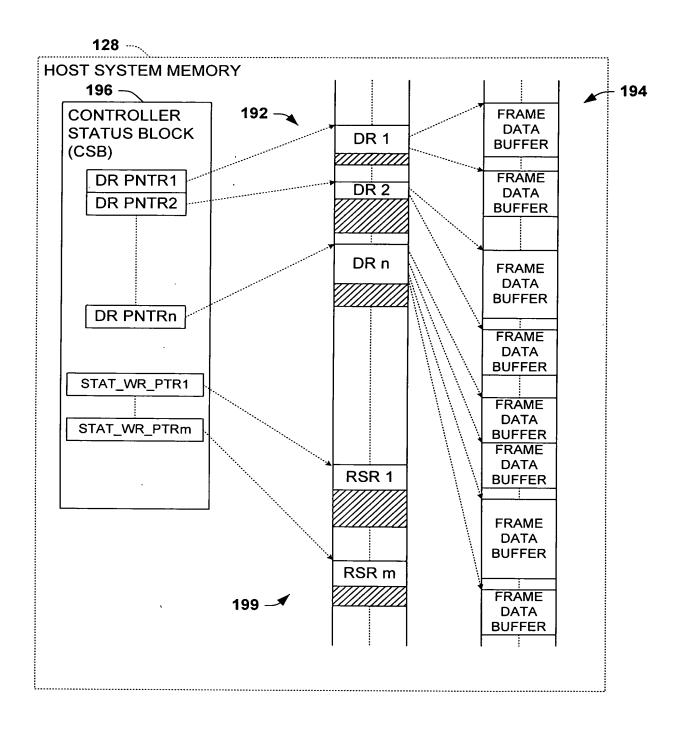


Fig. 5A

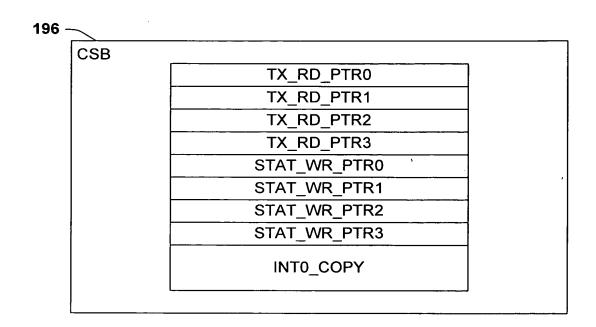


Fig. 5B

REGISTERS		٦
	RX_RING[3:0]_BASE	
	TX_RING[3:0]_BASE	
	RX_RING[3:0]_LEN	1
	TX_RING[3:0]_LEN	7
	TX_WR_PTR[3:0]	
	RX_WR_PTR[3:0]	7
	STAT_RING[3:0]_BASE	7
	STAT_RING[3:0]_LEN	7
	RX_BUF_LEN	1
	CSB_ADDR	1

Fig. 5C

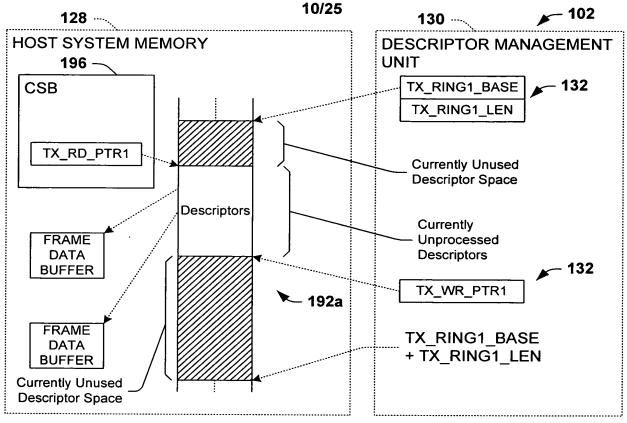
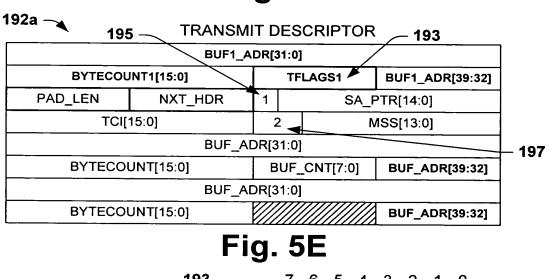


Fig. 5D



193 7 6 5 4 3 2 1 0

MORE\_CTRL

ADD\_FCS/IVLEN1

IVLEN0

IPCK

L4CK

BUF\_CNT

Fig. 5F

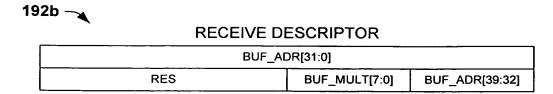


Fig. 5G

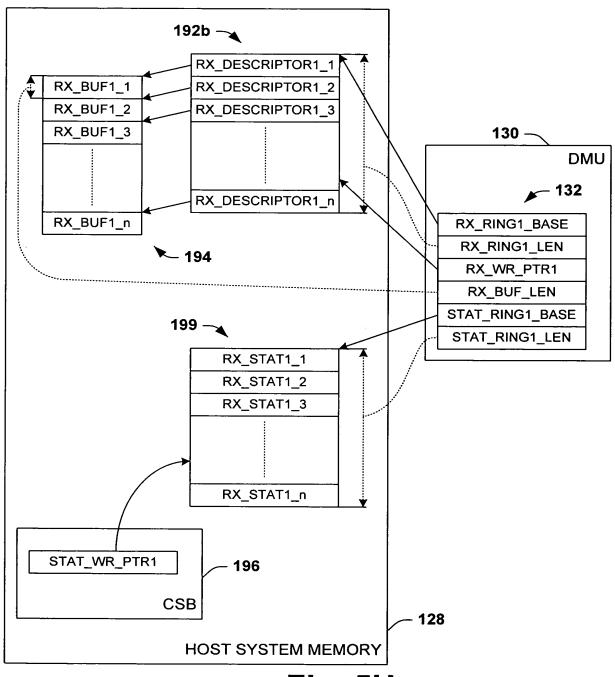
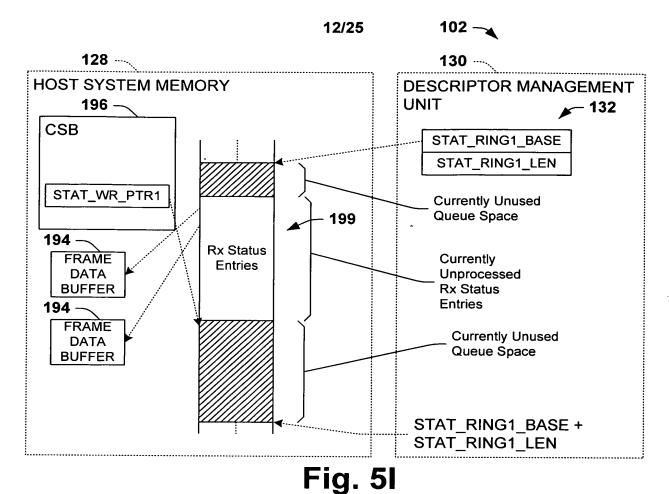
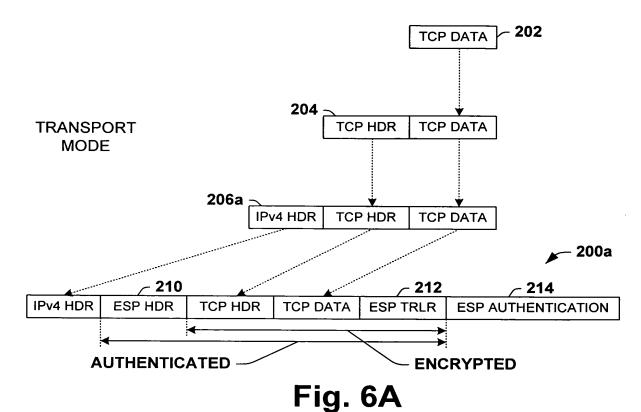
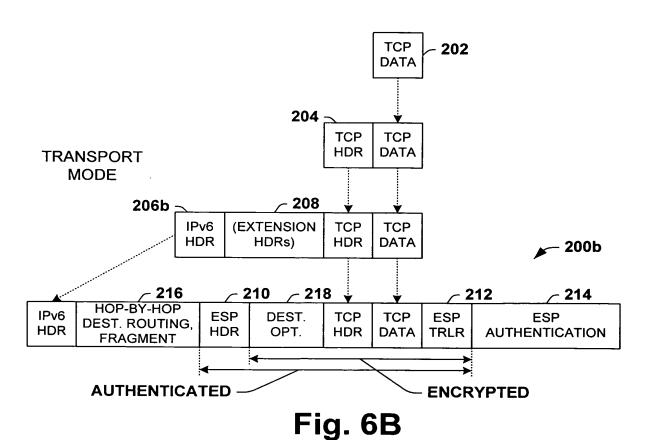


Fig. 5H



TCI[15:0] MCNT[15:0] **RECEIVE STATUS RING ENTRY** 199 -- RX\_ALIGN\_LEN[5:0] L4\_HEADER L4\_CK\_ERR IP\_HEADER - IP\_CK\_ERR - RX\_MATCH[2:0] - TT[1:0] - TRUNC - CRC - LEN ERR - PAD ERR - ESPAH ERR - AH\_ERR TUNNEL FOUND - IPSEC\_STAT1[2:0] Fig. 5J





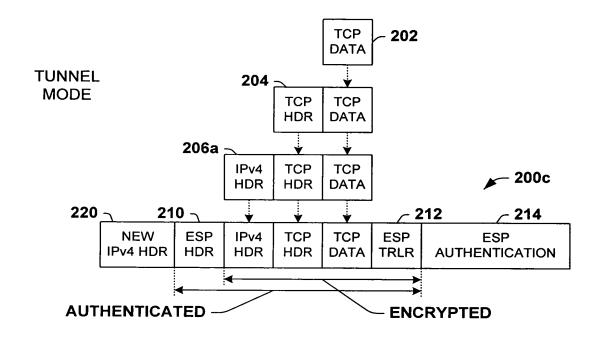


Fig. 6C

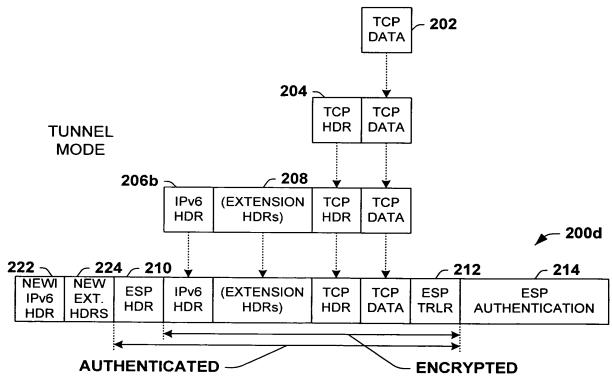


Fig. 6D

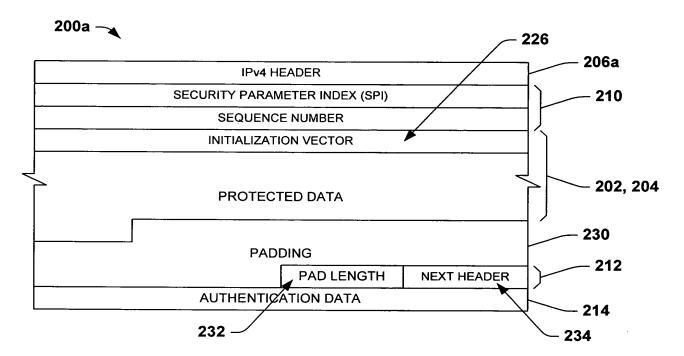


Fig. 6E

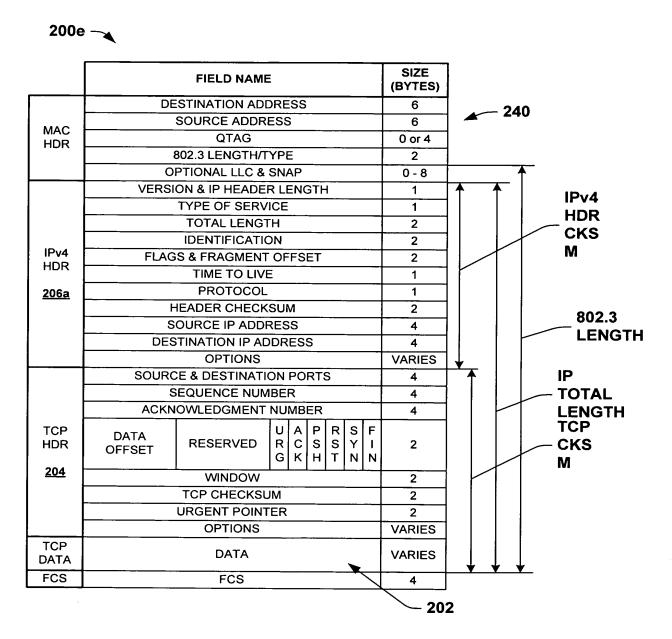


Fig. 7A

200f 🚤

	FIELD NAME					SIZE (BYTES)			
	DESTINATION ADDRESS						6	1	
	SOURCE ADDRESS						6	240	
MAC HDR	QTAG						0 - 4		
'''	LENGTH/TYPE						2	1	
	0	PTIONAL LLC &	SN	AP				0 - 8	<u> </u>
	VERSION, TRAFFIC CLASS, & FLOW LABEL					4	]		
		PAYLOAD LENG	3TH	1				2	]
IPv6		NEXT HEADE	R					1	]
HDR	HOP LIMIT					1	]		
206b	SOURCE IP ADDRESS						16	]	
	DESTINATION IP ADDRESS						16		
	EXTENSION HEADERS				VARIES	<u> </u>			
	SOURCE & DESTINATION PORTS					4	802.3		
		SEQUENCE NUM	1BE	R .				4	LENGTH
	ACKNOWLEDGMENT NUMBER					4	LENGTH		
TCP HDR	DATA OFFSET	RESERVED	U R G	C	3	R S T	S F Y I N N	2	PAYLOAD
204	WINDOW					2	LENGTH		
	TCP CHECKSUM						2	ТСР	
	URGENT POINTER						2	CKSM	
	OPTIONS					VARIES			
TCP DATA	DATA					VARIES			
FCS	FCS				4				
	202								

Fig. 7B

250 🚤

FIELD NAME	Created by Host	Modified by ESP	Encrypted	Covered by ESP Authentication	Added by Controller
Preamble					×
Start of Frame Delimiter					×
MAC Header	×				
IP Header	×				
ESP Header	x			×	
Payload Data	х	×	x	×	
Padding	×	×	×	×	
Pad Length	×	×	х	×	
Next Header	x	х	×	×	
Authentication Data	x	х			
Frame Check Sequence					×

Fig. 8A

252 —

FIELD NAME	Created by Host	Modified by AH Module	Covered by AH Authentication	Added by Controller
Preamble				×
Start of Frame Delimiter				×
MAC Header	×			
IP Header	×		х	
AH Header	×	×	x	
Other Headers	×		x	
Payload Data	×		×	
Frame Check Sequence				Х

Fig. 8B

254 ~

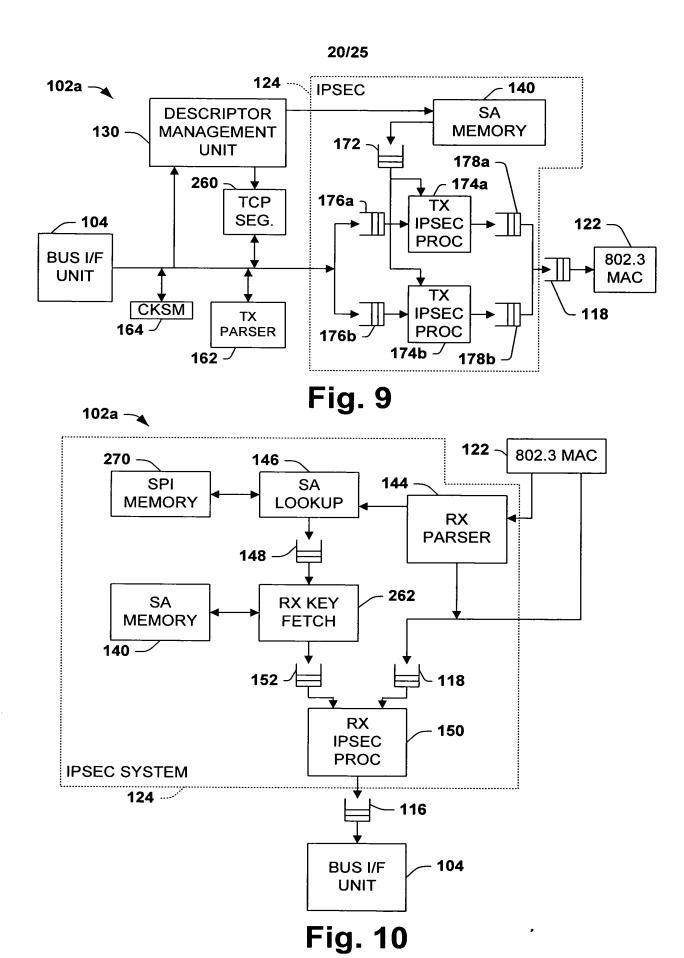
PHCKSM FOR IPv4					
32-BIT IP SOURCE ADDRESS					
32-BIT IP DESTINATION ADDRESS					
ZERO PROTOCOL					
TCP TOTAL LENGTH					

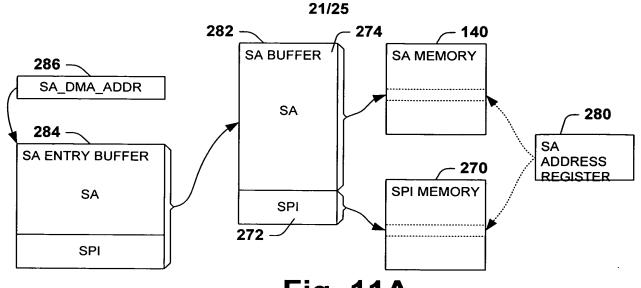
Fig. 8C

256 —

PHCKSM FOR IPv6						
128-BIT IP SOURCE ADDRESS						
128-BIT IP DESTINATION ADDRESS						
16-BIT TCP TOTAL LENGTH						
ZERO	PROTOCOL					

Fig. 8D





**Fig. 11A** 

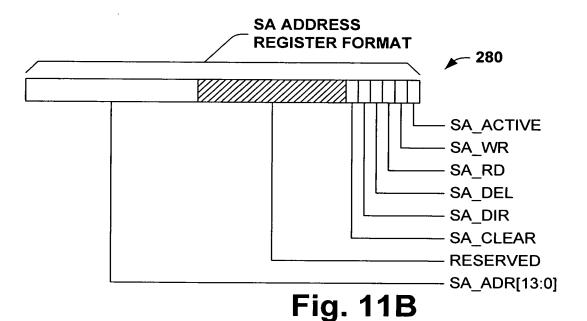
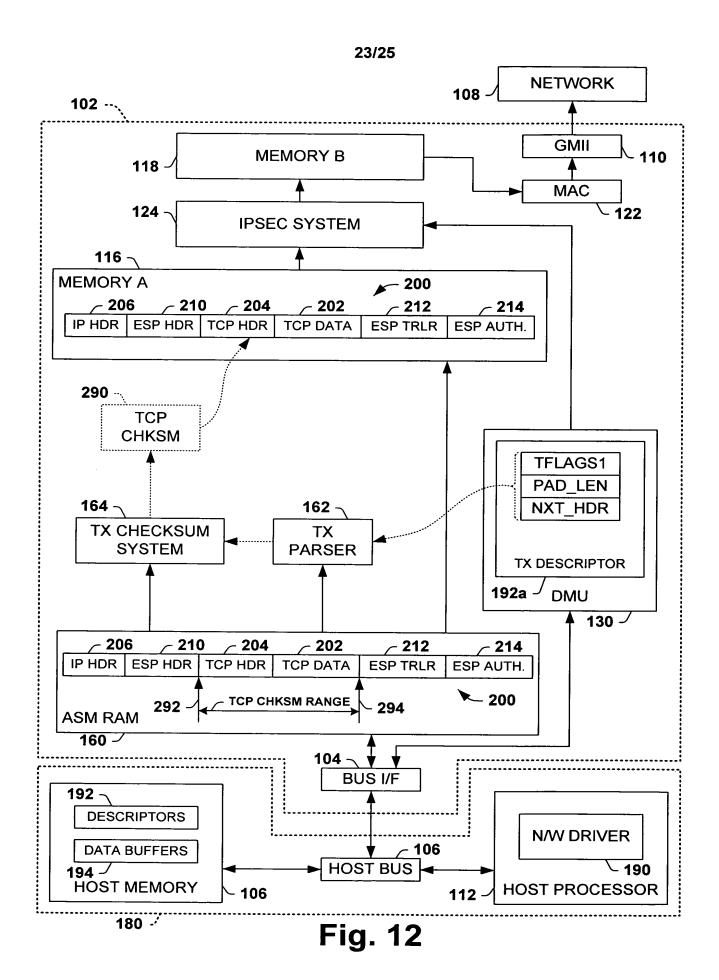


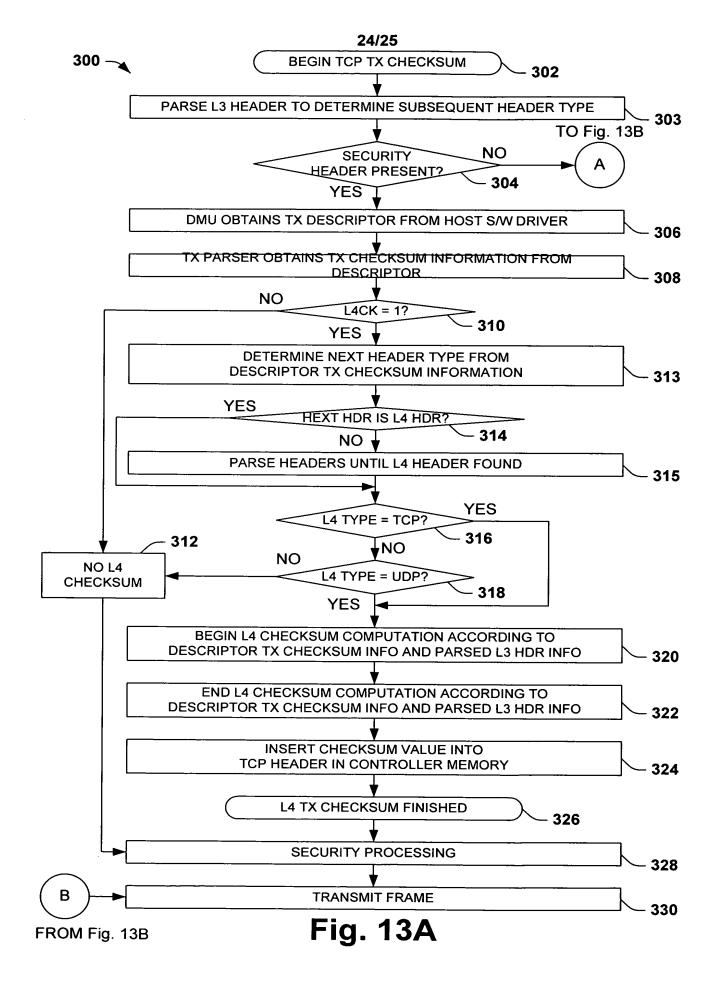
Fig. 11C

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140 -SA MEMORY ENTRY 274 ESP\_ALG ECB ESPAH\_ALG AH\_ALG PROTOCOL IPv6 BUNDLE SPI[31:0] IPDA[127:0] AH\_IPAD[159:0] AH\_OPAD[159:0] ESP\_IPAD[159:0] ESP\_OPAD[159:0] ENC\_KEY[255:0]

Fig. 11D





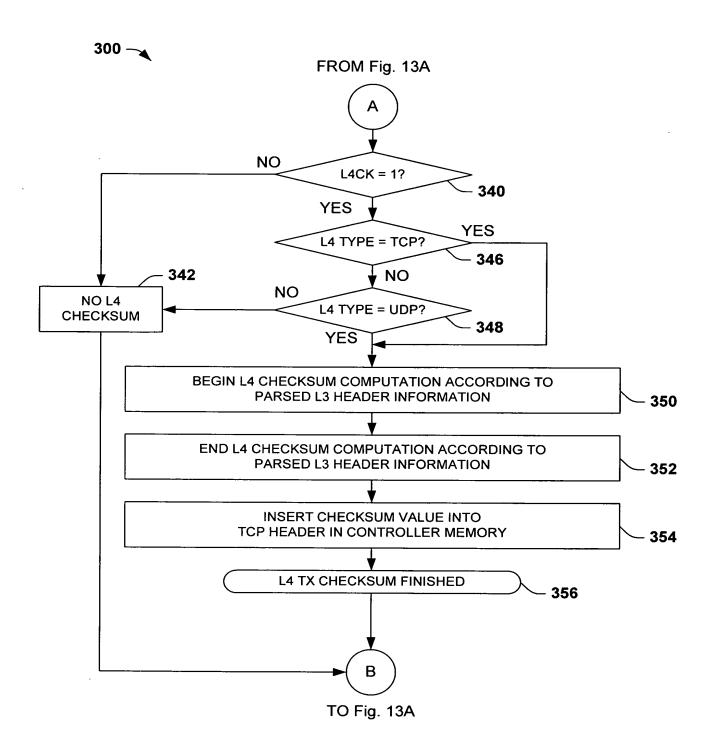


Fig. 13B